| | Question | Question | | | |
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| Topic | Date | Answered | Question | Answer | Status |
| Ch 2 | 7-12-07 | 7-13-07 | Imported water: What is the cost of imported water that would be needed for Los Osos? | The costs and feasibility of imported water have not been carefully analyzed, but would likely be approx. \$1200 per acre-foot/year, plus | |
| | | | | buy-in and capital costs, if excess water is available. A certain amount of analysis will be necessary during the CEQA review process in 2008. The actually quantity of water that may | |
| | | | | be needed, if any, depends on the water resources management in the community. | |
| Ch 2 | 7-12-07 | 7-13-07 | Injection wells: What is the cost of using injection wells to mitigated seawater intrusion? Would it be possible to use an existing well to do this? | According to Cleath and Assoc., using a limited number of existing water supply wells as direct injection wells would not be an effective measure to mitigate seawater intrusion. A seawater intrusion barrier system of direct injection wells would need to be specifically design for the horizontal and vertical features of the GW basin, with wells every 500 to 1000 feet. This would require from 30 to 40 injection wells, plus upgraded wastewater treatment processes, blend water wells, distribution system piping and storage. | |
| Ch 3 | 6-20-07 | 6-22-07 | Tank replacement: Discussion on why all of the tanks needed to be replaced if using a STEP system. Would it be possible to get an engineer to sign off on plans that did not include 100% replacement of tanks? | 100% tank replacement is a conservative estimate. For an existing tank to be reused it would have to be pumped out, inspected, and pressure tested, which would be costly. If the test failed, the tank would still have to be replaced. Existing tanks would also have to be retrofitted for STEP pumps. Both Ripley and Dr. Tchobanoglous agree that the community should expect to replace all septic tanks for a | |

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| | | | | STEP system. | |
| Ch 3 | 6-20-07 | 6-22-07 | Further STEP study: What are | See above for retrofitting. The 1986 study may | |
| | | | some of the ways we could | be worth revisiting, however most STEP | |
| | | | possibly bring the cost of STEP | proposals in recent years have envisioned one | |
| | | | down? Is it possible to retrofit the | tank per house. | |
| | | | tanks instead of replace? Is it | | |
| | | | possible to have two houses | | |
| | | | attached to one STEP tank? | | |
| | | | County did a study in 1986 on the | | |
| | | | possibility of attaching two houses | | |
| | | | to one STEP tank (Turri Rd). We | | |
| | | | should look at that study. | | |
| Ch 3 | 6-20-07 | 6-22-07 | Back up power: What kind of back | STEP tanks have sufficient storage for most | |
| | | | up power would be needed for the | power outages, less than a few days. It is not | |
| | | | STEP tanks? A back-up | anticipated that any agency would require | |
| | | | generator? Does the project | individual generators for each home. It is | |
| | | | require or suggest any sort of back | typical for lift stations that serve neighborhoods | |
| | | | up power the homeowners will be | to have back-up power. | |
| | | | responsible for? | | |
| Ch 3 | 6-20-07 | 6-22-07 | Old septic tank: Can the old tank | Yes, that possibility was recommended in the | |
| | | | be used to store run off water? | Coastal Development Permit. | |
| Ch 3 | 6-20-07 | 6-22-07 | Design life: What is the design life | It is expected that the system will last several | |
| | | | time of the system? | decades, with proper maintenance. | |
| Ch 3 | 6-20-07 | 6-22-07 | Carbon footprint: Discussion on | | Comment |
| | | | the carbon footprint of the | | |
| | | | systems. Topics included the high | | |
| | | | price of utilities, lowering cost of | | |
| | | | electricity and efficiency in power | | |
| | | | production, quality of alternative | | |
| | | | power and usability, importance of | | |
| | | | energy use and community views | | |

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| | | | of alternative power. | | |
| Ch 3 | 6-20-07 | 6-22-07 | Energy consumption: Tbl 8-2 and | Due to the existence of a 100% design for a | |
| | | | 8-3: energy consumption of the | gravity system, it is reasonable that there | |
| | | | two systems. The level of detail | would be a higher level of detail in the | |
| | | | seems to be unbalanced. There | estimates. | |
| | | | seems to be a greater level of | / | |
| | | | detail in regard to gravity. | | |
| | | | Compared to the Ripley report, this | | |
| | | | shows the energy requirements for | | |
| | | | STEP are 30% higher than what | | |
| | | | was assumed by Ripley Ripley | | |
| | | | did a more thorough look at STEP | | |
| | | | energy requirements. It may be | | |
| | | | that this is not critical because the | | |
| 2: - | | | order of magnitude is the same. | Y . | |
| Ch 3 | 6-20-07 | 6-22-07 | STEP O&M: Discussion of the | | Comment |
| | | | replacement time for the pump and | • | |
| | | | estimated time between pumping. | | |
| | | | Possible major source of O & M | | |
| | | | costs can come from floats in the | | |
| | | | STEP tanks. Possible that some | | |
| | | | of the replacement may be | | |
| | | | necessary before the assumed | | |
| 01.0 | 0.00.07 | 0.00.07 | time. | OTED and a second and different and a second and | |
| Ch 3 | 6-20-07 | 6-22-07 | Alarm system: Discussion of | STEP systems can be outfitted with a warning | |
| | | | monitoring. What kind of alarm | light or alarm at the house, with the | |
| | | | system was assumed? Is it | homeowner responsible to call for service. Or, | |
| | | | possible to have a centralized | a telemetry system can be installed to notify a | |
| | | | one? Relying on the homeowner | central service center. | |
| | | | to report an alarm is not always | The Fine Screening Report assumes remote | |
| | | | reliable. It is possible to break into | telemetry to a central maintenance operator. | |

| Tonio | Question | Question | Ougation | Anguar | Ctatus |
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| | | | the lock box where the alarm is to | | |
| | | | shut it off manually. Suggest | | |
| | | | perhaps a silent alarm that goes | | |
| Ch 2 | 6 20 07 | 6 00 07 | straight to the treatment plant. Control box: where is it located in | Orangela wahaita shawa a amall cantrol hay | |
| Ch 3 | 6-20-07 | 6-22-07 | | Orenco's website shows a small control box | |
| | | | regard to the tank? What will be | that looks similar to a controller for a lawn | |
| | | | seen above the tank? | sprinkler system. It could probably be located | |
| | | | | on a wall of the house. Tank lid and access hatch would also be visible. | |
| Ch 3 | 6-20-07 | 6-22-07 | Oder central, what two of filters | | |
| Cirs | 6-20-07 | 6-22-07 | Odor control: what type of filters can be used in the STEP system? | STEP tanks would be vented to roof level, similar to existing septic tanks. Air release | |
| | | | How reliable are these filters and | valves on the pressurized main lines would be | |
| | | | how often do they need to be | inside of an enclosure similar to a water | |
| | | | replaced? Would they be above | distribution system, but with a carbon or other | |
| | | | ground or below ground? | type of filter. | |
| Ch 3 | 7-26-07 | 7-26-07 | Gravity system: According to the | Average depth of pipe: 8 feet to top of pipe | |
| | 7 20 07 | 7 20 07 | design, what is the average depth | Lowest depth of pipe: 21 feet to top of pipe | |
| | | | to the top of pipe? What is the | % of pipe at different depth tiers (4-8', 8-12', | |
| | | | deepest depth of pipe? What is | 12-16' and >16'): | |
| | | | the percentage of total pipe (44 | | |
| | | | miles) at each depth? | < 8 ft 63% | |
| | | | | 8-12 ft 34% | |
| | | | | 12-16 ft 2% | |
| | | | | > 16 ft 1% | |
| Ch 3 | 7-26-07 | | Gravity system: How many lift | 12 pocket stations (2 to 3 pumps per station) | |
| | | | stations? How many pocket | @ 1hp per pump | |
| | | | stations? What is the horsepower | 4 duplex lift station @ 5 and 10 hp per pump | |
| | | | of the pumps for both the lift | 1 triplex lift station @ 60 hp per pump | |
| | | | stations and pocket pumps? | | |
| Ch 4 | 6-18-07 | 7-3-07 | Treatment costs: The nitrogen mg/l | See Tables 4.17 and 4.19 | Comment |
| | | | for effluent for treatment using | | |

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| | | | STEP was over 10 for most | | |
| | | | systems, yet the cost estimate | | |
| | | | table did not reflect the addt'l cost | | |
| | | | to add treatment processes for | | |
| | | | these same systems. | | |
| Ch 4 | 6-18-07 | 7-3-07 | Tri-W: What are the specific | The capital construction costs for MBR | |
| | | | numbers for Tri-W in regards to the | treatment in the Tri-W Project are listed in | |
| | | | costs related to the treatment | Table 7.2 as \$55M. Annual treatment O&M is | |
| | | | technology? (O&M, capital, etc.) | estimated at \$700k. | |
| Ch 5 | 6-29-07 | 7-3-07 | STEP tank septage: For the | The septage from STEP tanks would go to the | |
| | | | volumes calculated in Table 5.13, | plant for treatment, including a pond treatment | |
| | | | do these numbers assume the | system. | |
| | | | septage from the STEP tanks will | | |
| | | | be received at the plant? | | |
| Ch 5 | 7-9-07 | 7-13-07 | Green waste: How much green | Approximately 5,200 tons per year of green | |
| | | | waste is currently being hauled out | waste is hauled from Los Osos. This value is | |
| | | | of Los Osos annually? Would it be | fairly constant over the years. It is likely that | |
| | | | possible to use it for composting of | this amount could be available for composting | |
| | | | bio-solids? How much green | in Los Osos. Based on a 5:1 blend, this could | |
| | | | waste would the composting | be mixed with approx. 1,000 tons/year of | |
| | | | process require? | biosolids. | |
| Gen | 6-29-07 | 7-3-07 | All levels of SWI mitigation require | Conservation doesn't necessarily require | Comment |
| | | | purveyor participation. Water | purveyor financial participation, which is the | |
| | | | conservation assumes reduced | main threshold. Reduced lower aquifer | |
| | | | pumping of west-side, lower- | production on the west side will occur, with or | |
| | | | aquifer wells. | without conservation. The benefit of | |
| | | | | conservation is not having to make up the | |
| | | | | reductions elsewhere. | |
| Gen | 6-18-07 | | Tri-W: The Tri-W project should be | | Comment |
| | | | in every table, how can we analyze | | |
| | | | it without data? | | |

